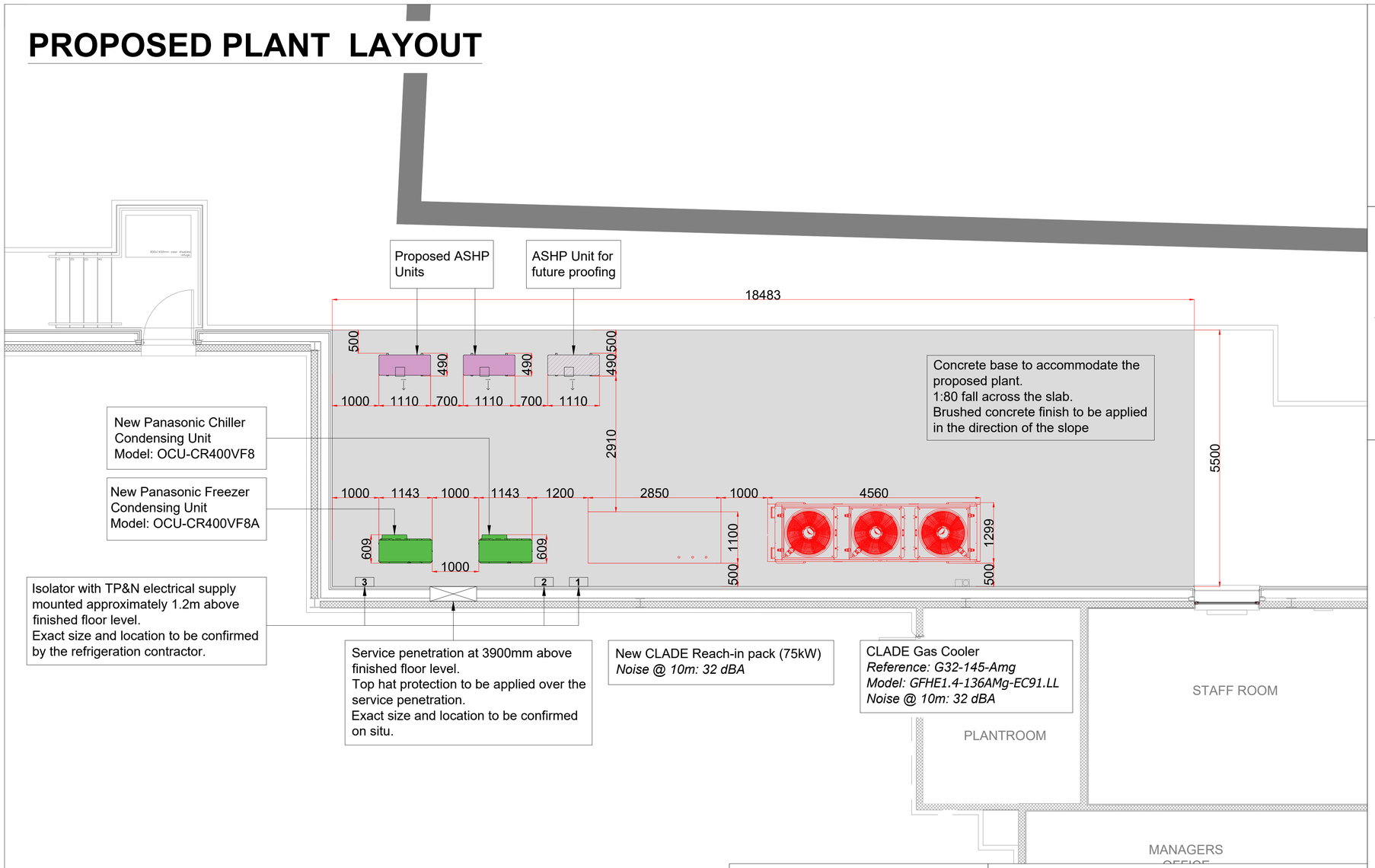
PROPOSED PLANT LAYOUT



Pack Noise Rating

Dorin 75kW-PFE-ULN Reach In Housing (32)		Octave Band Frequency (Hz)								
Noise Source	dB(A)	63.0000	125.0000	250.0000	500.0000	1000.0000	2000.0000	4000.0000	8000.0000	
CD4 75-7.3M	61	39	39	49	47	60	55	53	47	
CD4 75-7.3M	61	39	39	49	47	60	55	53	47	
CD4 90-9.2m	62	40	40	50	48	61	56	54	48	
CD 2000H	67	45	45	55	53	66	61	59	53	
LA47-A3p Vent Fan Inlet	50	39	42	46	42	43	45	44	34	
LA47-A3p Vent Fan Outlet	50	39	42	46	40	43	45	44	34	
Calculated Internal Sound Pressure Level	71	49	50	58	56	69	64	62	56	
**Correction for Internal Reflection/Frequecy*		5	5	5	5	5	5	5	5	
Total Internal Sound	**76**	**54**	**55**	**63**	**61**	**74**	**69**	**67**	**61**	
Attenuated Sound Pressure @ 1.0m	**52**	**45**	**45**	**48**	**41**	**54**	**39**	**37**	**31**	**dB(A) LpA @1m**
Attenuated Sound Pressure @10m	**32**	**16**	**17**	**19**	**15**	**25**	**11**	**<10**	**<10**	**dB(A) LpA @10m**

Chiller CU Data

Type (MT: medium temp. LT: low temp.)			**MT (7,5kW)**	
Standard model			**OCU-CR400VF8**	
Anti corrosion coating model			**OCU-CR400VF8SL**	
Power supply	Voltage	V	380/400/415	
	Phase		Three Phase	
	Frequency	Hz	50	
Cooling capacity at ET -10°C AT 32°C		kW	6,90	
Cooling capacity at ET -35°C AT 32°C		kW	—	
Evaporator connection			Multiple [1]	
Evaporation temperature	Min ~ Max	°C	-20 ~ +5	
Ambient temperature	Min ~ Max	°C	-15 ~ +43	
Refrigerant			R744	
Design pressure liquid line		Mpa	8	
Design pressure suction line		Mpa	8	
User system external alarm. Digital input. Non-voltage contact			Yes	
Liquid tube electromagnetic valve		Vac	380/400/415	
Showcase operation ON/OFF signal. Digital input. Non-voltage contact			Yes	
Modbus communication line (RS485)		Ports	2	
Compressor type			2- stage rotary	
Dimension	H x W x D	mm	968 x 1143 x 609	
Net weight		Kg	TBC	
Piping connections	Suction pipe	Inch (mm)	1/2 (12,70)	
	Liquid pipe	Inch (mm)	3/8 (9,52)	
Length of connection piping		m	TBC	
Standard performance	Ambient temperature	°C	32	
	Evaporating temperature	°C	-10	-10
	Cooling capacity	kW	6,90	6,90
	Power consumption	kW	TBC	TBC
	Nominal load ampere	A	TBC	TBC
	Sound pressure level	dB(A)	33	
PED			II	
Air volume		m³/min	TBC	
External static pressure		Pa	TBC	
Heat recovery port			Yes	
Drier filter liquid line, diameter 6,35mm			TBC	
Drier filter liquid line, diameter 15,88mm			TBC	

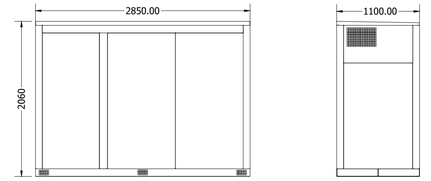
Necessary accessories

Tube connector adaptor for vacuum and service	**SPK-TU125**	TBC
Suction filter, diameter 19,05mm (outer diameter welding)	**S-008T**	TBC

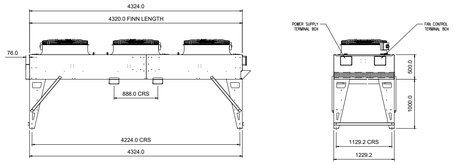
Freezer CU Data

Code			**OCU-CR400VF8A, OCU-CR400VF8ASL**
Rated Output			3 kW
Rated Electricity (Primary)			50 Hz 380 V /400 V / 415 V 3N ~ ±10 %
Refrigerant			R744
Ambient Temperature			-20 °C ~ +45 °C
Evaporating Temperature			-45 °C ~ -5 °C
Compressor	Oil	Type	Daphne Hermetic PZ-68S
		Charge Volume	0.6 L
	Compression System		2-stage compression rotary + Injection
	Crankcase Heater		20 W
Exchanger	Type		Aluminum pre-coated fin tube
	Fan Motor Rated Output		142 W
	External static pressure		50 Pa
	Fan Diameter		Φ490 mm
Heat	Fan Air Flow	50 Hz	3,540 m³/h (full speed operation)
	Air Mass Flow Control		Rotational speed control in 0 ¼ ~ 100 ¼ by DC inverter
Capacity Control		System	Inverter Control 50% to 100% // 40 s⁻¹ Hz to 80 s⁻¹ Hz
Protections	High Pressure Switch [Mpa]	CUT OUT	12.0 MPa
		CUT IN	8.0 MPa
	Compressor Over Current	Inverter	16 A off in 1 sec (INV4-MF-EN PCB)
	Compressor Discharge Gas Temperature		118 °C OFF / 75 °C ON (CR2-EN PCB)
	Power Supply reverse phase /open phase		Available
	Fuse		INV4-MF-EN PCB (AC400V 20Ax3, AC250V 10AX1, AC250v 5aX1, AC250V 2Ax1)
Internal Mechanical Parts	Gas Cooler		Aluminum pre-coated fin tube
	Intermediate Cooler		7.57 L
	Maximum gas load in the installation with this unit		8.0 kg
	Oil Separator		1.2 L (0.55 L of oil are precharged.)
Connection Piping		Suction Line	Φ12.7 mm (Outer diameter welding)
		Liquid Line	Φ9.52 mm (Outer diameter welding)
Outer Dimension		H×W×D	948 mm × 1,142 mm × 586 mm
Outer Dimension (with package)		H×W×D	1,074 mm × 1,215 mm × 730 mm
Net Weight [kg]			136
Package Weight [kg]			173
Exterior Color			Harmony White (Munsell: 5Y-8.4/0.5)
Filter | Suction line (must be commissioned)			Included with the unit (reference: S-008T)
Filter | Liquid line (must be commissioned)			Included with the unit (reference: D-152T)
Standard Performance	Ambient Temperature		32 °C
	Evaporating Temperature		-10°C / -35°C
	Compressor Rotational Speed		80 s⁻¹ (Hz) / 80s⁻¹ (Hz)
	Cooling Capacity		7.7?/ 7.7?/ 7.7? kW / 3.8/ 3.8/ 3.8 kW
	Power consumption		4.5 / 4.5 / 4.5 kW / 3.8 / 3.8 / 3.8 kW
	Electric current		7.2 / 6.9 / 6.7 A / 6.2 / 5.9 / 5.7 A
	Starting current		Inverter / Inverter
	Power factor		94 / 94 / 94 % / 92 / 92 / 92 %
	Sound Pressure Level		36.1 dB(A)

CLADE Reach-in Pack Housing (75kW)
Noise Level @10m : 32 dBA



CLADE Gas Cooler- G32-145-Amg
GFHE1.4-136AMg-EC91.LL
Noise Level @ 10m: 32dB(A)



Weight (dry approx.): 735kg

Gas cooler data

Reference:	**G32-145-Amg**
Model:	GFHE1.4-136AMg-EC91.LL
GAS COOLER	
Coil Code:	1 x CO-48-6-2.31-4320
Performance Sub-Critical	
Capacity	118.8 kW
Ambient	10 °C, 50 %RH
Condensing Temp.	20 °C
TD	10 K
Performance Supercritical	
Capacity	144.3 kW
Ambient	40°C
Gas Pressure	100 Bar
Gas Inlet	100°C
Gas Outlet	42°C
Volume flow Inlet	15 m3/hr
Volume flow Outlet	5 m3/hr
Mass Flow	2908 kg/hr
Pressure drop	140 kPa
DUMP COIL	
Coil Code:	N/A
Capacity	
Ambient	
Evaporating Temp	
TD	
AIR PERFORMANCE:	
Volume flow humid	7.3m3/s, (26410m3/hr)
Height over sea level	0 m
Pressure	1013.25 hPa
Number of Fans	3
External Resistance	0 Pa
Supply	400v 3ph 50/60hz
Fan Type	EC - 910 mm diameter
Speed Design / Maximum	395 / 640 rpm
Total Power Input	484.5 W
Energy Rating	A
Full Load Current / Motor	1.1 A
Sound Power Level	63.8 dBA
Mean Sound Pressure @ 10m	32 dBA
PHYSICAL:	
Tube material	Copper - Plain
No Rows	6
Fin Material	Alum Mag
Fin Spacing	2.31 mm / 11 fpi
Surface	682.6 m2
Internal Volume	53.1 dm3
No Section / Coils	1 coil in 1 section
No Circuits	24
Connection Size	1 x 35 / 35
Unit Dimensions Width	1250 mm
Height + Fan	1175 mm
Length over headers	4620 mm
Weight (dry approx.):	735 kg

REV	DATE	DESCRIPTION	DRW	CHK

Plant Key:

- New Panasonic Condensing Units
- New Vaillant Heat Pumps
- New CLADE Refrigeration Pack & Gas Cooler

Builders Work Key:

- Existing - to remain in situ
- Existing - to be removed
- Temporary
- New
- New Concrete base

NOTES:

1. Refrigeration Contractor to advise on service penetrations prior to core drill.
2. Exposed Refrigeration services to receive top hat protection.
3. New concrete base to accommodate the proposed plant
4. Plant access door and position to be agreed with the refrigeration contractor
5. Fire escape routes are to be maintained throughout the store refit and must not be obstructed at any time.

Client
Aldi Stores Ltd.

Project Title
ALDI - HOLBEACH

Project Address
FLEET STREET
HOLBEACH

Drawing Title
PROPOSED PLANT LAYOUT

Job No.	Originator	Zone	Level	Type	Role
79-E1602	**WAVE**	**XX**	**00**	**DR**	**R**

System Classification	Drawing No.	Suitability	Revision
En_60_60_00	**-0001**	**A5**	**P00**

Drawn	Checked	Date	Scale	Size
SP	**NA**	**24-03-2023**	**1:50**	**A1**

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